

ABSTRACT OF THE DISCLOSURE

5 An apparatus for aiding a machinist in preparing a
machining program. A machining simulator simulates a basic
machining program. Values of machining variables are
obtained during the simulation and stored in a simulation
result data memory. A spindle load determiner, a cutting
speed determiner, and a rotating speed determiner analyze
the machining variable values of a certain machining process
10 to determine the machining efficiency of that process. A
navigation information memory stores a plurality of messages
for giving advice on how to change the cutting conditions.
A message, which depends on the analysis of the machining
variable values, is selected from the memory and is shown on
a display. Accordingly, an operator can easily modify the
basic machining program by following the message on the
display, even if the operator does not have much knowledge
or experience.

09273256 032299